REMARKS

Claims 1-18 are pending in this application. Claims 8 and 18 have been canceled. Claims 1, 4, 10 and 14 have been amended. New claim 19 has been added. Claims 1-7, 9-17, and 19 remain in the application.

Claims 1, 3-5, 7, and 9-18 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Eatwell et al. (U.S. Patent No. 5,481,615; hereinafter "Eatwell1") in view of Zacharov et al. (U.S. Patent No. 6,639,989; hereinafter "Zacharov").

Claims 1 and 2 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Op De Beek et al. (U.S. Patent No. 4,628,530; hereinafter "Op De Beek") in view of Zacharov et al. (U.S. Patent No. 6,639,989).

Claim 6 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Eatwell1 in view of Eatwell et al. (U.S. Patent No. 5,743,694; hereinafter "Eatwell2").

Applicants note with appreciation the indicated allowability of claim 8.

Claim 4 has been amended to include subject matter from allowable claim 8, i.e. the adjustable length of the MES. However, claim 4 does not include certain limitations of the intervening claims which now depend from amended claim 4.

Claim 10 has also been amended to include subject matter from allowable claim 8.

Claim 1 has been amended to recite "detecting in the electric response signal a reflected signal and *isolating a portion of the response signal* between a time of flight signal and the reflected signal, and *correlating the isolated portion* of the electric response signal with the electric calibration signal to compute filter coefficients."

Likewise, new apparatus claim 19 recites that "the processor detects in the received electric signal *a reflected signal* and *correlates a portion of the response signal between a time of flight signal and the reflected signal* with the test signal to compute filter coefficients."

Support for the changes to claim 1 and the new claim 19 can be found on page 9, line 21, to page 11, line 2 (for TOF); and page 13, line 15-17, for the anechoic response, i.e. the reflected signal. See also FIG. 12a.

Since the inventor, Dr. William Michalson, likes to participate in the interview, but will be unavailable from September 20 - 24, 2004, Applicants would prefer the interview to be conducted during the week of September 27 at a mutually agreed-to time. The undersigned will call Examiner Michalski on September 23, 2004. Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at 617-951-7000 (direct dial: 617-951-7681).

Dated: September 20, 2004

Respectfully submitted,

By_____

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